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BLAKELY, SO	KOLOFF, TAYLOR &	10000		
Seventh Floor		ART UNIT	PAPER NUMBER	
12400 Wilshire	Boulevard	2614		
Los Angeles, C	A 90025-1026	DATE MAILED: 12/02/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)	M				
		09/770,8	71	PRABHU ET AL.	4 /X				
	Office Action Summary	Examine	ī	Art Unit					
			Shannon	2614					
۔۔ Period for	The MAILING DATE of this commun Reply	ication appears on the	e cover sheet with the c	orrespondence addr	ess				
THE M - Extens after S - If the p - If NO p - Failure Any re	RTENED STATUTORY PERIOD F AILING DATE OF THIS COMMUN ions of time may be available under the provisions IX (6) MONTHS from the mailing date of this comn eriod for reply specified above is less than thirty (3 eriod for reply is specified above, the maximum as to reply within the set or extended period for reply ply received by the Office later than three months a patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no ev nunication. O) days, a reply within the stat atutory period will apply and w will, by statute, cause the app	ent, however, may a reply be tim utory minimum of thirty (30) day ill expire SIX (6) MONTHS from dication to become ABANDONE	nely filed s will be considered timely. the mailing date of this com D (35 U.S.C. § 133).	munication.				
Status									
1)⊠ F	Responsive to communication(s) file	ed on <u>26 January 200</u>	<u>11</u> .						
2a)∐ 1	This action is FINAL .	2b)⊠ This acti on is r	ion-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositio	n of Claims								
4) \(\times \) \(Claim(s) <u>1-35</u> is/are pending in the a a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) <u>1-35</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	re withdrawn from co							
Applicatio	n Papers								
9)∐ T	he specification is objected to by th	e Examiner.							
10)⊠ T	he drawing(s) filed on 25 June 200	<u>1</u> is/are: a)⊠ accept	ed or b) dbjected to	by the Examiner.					
P	Applicant may not request that any obje	ction to the drawing(s) I	oe held in abeyance. See	e 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the oath or declaration is objected to	•	• • • • • • • • • • • • • • • • • • • •		` '				
Priority ur	nder 35 U.S.C. § 119								
a) [cknowledgment is made of a claim All b) Some * c) None of: Certified copies of the priority Copies of the certified copies application from the Internations the attached detailed Office action	documents have bee documents have bee of the priority documents	en received. en received in Applicati ents have been receive le 17.2(a)).	on No ed in this National S	tage				
Attachment(s)								
1) Notice	of References Cited (PTO-892)		4) Interview Summary						
3) 🔲 Informa	of Draftsperson's Patent Drawing Review (Fation Disclosure Statement(s) (PTO-1449 or No(s)/Mail Date	PTO-948) PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-1	52)				

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-35 are rejected under 35 U.S.C. 102(a) as being anticipated by CEA-775-A DTV 1394 Interface Specification (hereinafter, 775A).

Regarding claim 1, the claimed method is met as follows:

- The claimed step of receiving a multiple program transport stream is met
 by the Service Selection section 8.1 on page 31. The mentioned source
 device is operable to select a source and tune to a channel within a
 multiple program TS.
- The claimed step of filtering the multiple program transport steam to a
 single program transport stream based on a program selected by a user is
 met by the Service Selection section 8.1 and by the MPEG Transport
 Stream Source (Figure 3, page 4), which serve to tune to and deliver a
 particular transport stream selectable by the user.
- The claimed step of providing the single program transport stream to a
 remote device over an Institute of Electrical and Electronics Engineers
 1394 serial communication bus in accordance with Electronics Industries
 Associations standards 775A and 799 is met by the 1394 bus connection

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of Figure 3, which provides the transport stream to the DTV Receiver.

Also note on page 14, section 3.2.2.1 discusses the use of the EIA-799 standard for OSD delivery.

Regarding claim 2, the claimed step of determining the network topology of consumer electronic devices such that the program transport stream is directed to one or more specified consumer electronic devices is met by the Configuration ROM Discovery section 9.2, pages 39-40. This section discloses the need for the devices to "discover" other devices in the network (determine a network topology).

Regarding claim 3, the claimed step of directing a module that is not IEEE standard 775A compliant to access an application program interface such that the module transmits bitmap information to an IEEE standard 775A compliant remote device for display is met by the Analog OSD section 3.2.1 on page 13. This section discloses a need for optional support for analog systems, in which non-compliant sources can still be displayed on the compliant device. Also, in the Digital OSD section 3.2.2 on page 14, it is noted, "support of bitmaps over an analog input is optional."

Regarding claim 4, the claimed module being a Home Audio-Visual interoperability module that may exist locally or remotely is met by the discussion of the HAVi model for interoperability, discussed in the IEEE 1212 Configuration ROM section 9.1 on pages 34-35.

Regarding claim 5, the further claimed steps are met as follows:

 The claimed step of tailoring program association information in accordance with Electronics Industries Association standard 775A is met

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by the ability for the OSD Generator and the Resident Application (Figure 3, page 4), to tailor the OSD and programming information and deliver it to the Compositor/Format Conversion.

 The claimed step of providing the tailored program association information to the remote device is met by the link between the A/V Source and the DTV through 1394 bus.

Regarding claim 6, the claimed remote device being a digital television is met by the DTV Receiver (Digital Television Receiver) of Figure 3, on page 4.

Regarding claim 7, the claimed single program transport stream being a high definition video stream is met by the discussion of DV Streams in section 8.3, page 33. The High Definition DV coded video can be utilized in the system.

Regarding claim 8, the claimed single program transport stream being provided to the remote device as an isochronous stream is met by the Digital TV Video Processing section 3.1, on page 13. This section discloses that the link between the AV Source and the DTV is accomplished using an isochronous channel on the IEEE 1394 bus.

Regarding claim 9, the claimed isochronous stream being copy-protected is met by the discussion of the future of the standard in the Foreword on page 1. The foreword teaches that copy protection can be utilized in the system.

Regarding claim 10, the claimed single program transport stream being provided only to authenticated remote devices on the Institute of Electrical and Electronics

Engineers 1394 serial communication bus is met by the Foreword's discussion of the

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DTV 1394 interface that is required to comply with the standard and in some way be authenticated in order to operate on the network.

Regarding claim 11, the claimed authentication being implemented using an authentication protocol is met by the Foreword's discussion of the DTV 1394 interface that is required to comply with the standard and in some way be authenticated in order to operate on the network.

Regarding claim 12, the claimed method is met as follows:

- The claimed step of receiving user interface information related to a
 remote device is met by the bi-directional Control & Status connection
 between the A/V Source and the DTV Receiver (Figure 3, page 4). This
 Status line serves to receiver information regarding the user interface from
 the DTV.
- The claimed step of formatting the information for transmission over an
 Institute of Electrical and Electronics Engineers 1394 serial
 communication bus in accordance with Electronics Industries Associations
 standard 775A and 799 is met by the OSD Generator and the
 Compositor/Format Conversion of Figure 3, page 4. These parts work
 together to format the OSD and generate it at the DTV.

Regarding claim 13, the claimed device is met as follows:

 The claimed means for receiving a multiple program transport stream is met by the Service Selection section 8.1 on page 31. The mentioned Art Unit: 2614

source device is operable to select a source and tune to a channel within a multiple program TS.

- The claimed means for filtering the multiple program transport steam to a single program transport stream based on a program selected by a user is met by the Service Selection section 8.1 and by the MPEG Transport Stream Source (Figure 3, page 4), which serve to tune to and deliver a particular transport stream selectable by the user.
- The claimed means for providing the single program transport stream to a remote device over an Institute of Electrical and Electronics Engineers 1394 serial communication bus in accordance with Electronics Industries Associations standards 775A and 799 is met by the 1394 bus connection of Figure 3, which provides the transport stream to the DTV Receiver. Also note on page 14, section 3.2.2.1 discusses the use of the EIA-799 standard for OSD delivery.

Regarding claim 14, the claimed means for determining the network topology of consumer electronic devices such that the program transport stream is directed to one or more specified consumer electronic devices is met by the Configuration ROM Discovery section 9.2, pages 39-40. This section discloses the need for the devices to "discover" other devices in the network (determine a network topology).

Regarding claim 15, the claimed means for directing a module that is not IEEE standard 775A compliant to access an application program interface such that the module transmits bitmap information to an IEEE standard 775A compliant remote

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device for display is met by the Analog OSD section 3.2.1 on page 13. This section discloses a need for optional support for analog systems, in which non-compliant sources can still be displayed on the compliant device. Also, in the Digital OSD section 3.2.2 on page 14, it is noted, "support of bitmaps over an analog input is optional."

Regarding claim 16, the claimed module being a Home Audio-Visual interoperability module that may exist locally or remotely is met by the discussion of the HAVi model for interoperability, discussed in the IEEE 1212 Configuration ROM section 9.1 on pages 34-35.

Regarding claim 17, the further claimed means are met as follows:

- The claimed means for tailoring program association information in accordance with Electronics Industries Association standard 775A is met by the ability for the OSD Generator and the Resident Application (Figure 3, page 4), to tailor the OSD and programming information and deliver it to the Compositor/Format Conversion.
- The claimed means for providing the tailored program association information to the remote device is met by the link between the A/V Source and the DTV through 1394 bus.

Regarding claim 18, the claimed remote device being a digital television is met by the DTV Receiver (Digital Television Receiver) of Figure 3, on page 4.

Regarding claim 19, the claimed single program transport stream being a high definition video stream is met by the discussion of DV Streams in section 8.3, page 33. The High Definition DV coded video can be utilized in the system.

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Regarding claim 20, the claimed single program transport stream being provided to the remote device as an isochronous stream is met by the Digital TV Video Processing section 3.1, on page 13. This section discloses that the link between the AV Source and the DTV is accomplished using an isochronous channel on the IEEE 1394 bus.

Regarding claim 21, the claimed isochronous stream being copy-protected is met by the discussion of the future of the standard in the Foreword on page 1. The foreword teaches that copy protection can be utilized in the system.

Regarding claim 22, the claimed single program transport stream being provided only to authenticated remote devices on the Institute of Electrical and Electronics Engineers 1394 serial communication bus is met by the Foreword's discussion of the DTV 1394 interface that is required to comply with the standard and in some way be authenticated in order to operate on the network.

Regarding claim 23, the claimed authentication being implemented using an authentication protocol is met by the Foreword's discussion of the DTV 1394 interface that is required to comply with the standard and in some way be authenticated in order to operate on the network.

Regarding claim 24, the claimed machine-readable medium that provides executable instructions, which when executed by a processor, cause the processor to perform a method is met as follows:

 The claimed step of receiving a multiple program transport stream is met by the Service Selection section 8.1 on page 31. The mentioned source Art Unit: 2614

device is operable to select a source and tune to a channel within a multiple program TS.

- The claimed step of filtering the multiple program transport steam to a
 single program transport stream based on a program selected by a user is
 met by the Service Selection section 8.1 and by the MPEG Transport
 Stream Source (Figure 3, page 4), which serve to tune to and deliver a
 particular transport stream selectable by the user.
- The claimed step of providing the single program transport stream to a remote device over an Institute of Electrical and Electronics Engineers 1394 serial communication bus in accordance with Electronics Industries Associations standards 775A and 799 is met by the 1394 bus connection of Figure 3, which provides the transport stream to the DTV Receiver. Also note on page 14, section 3.2.2.1 discusses the use of the EIA-799 standard for OSD delivery.

Regarding claim 25, the claimed step of determining the network topology of consumer electronic devices such that the program transport stream is directed to one or more specified consumer electronic devices is met by the Configuration ROM Discovery section 9.2, pages 39-40. This section discloses the need for the devices to "discover" other devices in the network (determine a network topology).

Regarding claim 26, the claimed step of directing a module that is not IEEE standard 775A compliant to access an application program interface such that the module transmits bitmap information to an IEEE standard 775A compliant remote

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device for display is met by the Analog OSD section 3.2.1 on page 13. This section discloses a need for optional support for analog systems, in which non-compliant sources can still be displayed on the compliant device. Also, in the Digital OSD section 3.2.2 on page 14, it is noted, "support of bitmaps over an analog input is optional."

Regarding claim 27, the claimed module being a Home Audio-Visual interoperability module that may exist locally or remotely is met by the discussion of the HAVi model for interoperability, discussed in the IEEE 1212 Configuration ROM section 9.1 on pages 34-35.

Regarding claim 28, the further claimed steps are met as follows:

- The claimed step of tailoring program association information in accordance with Electronics Industries Association standard 775A is met by the ability for the OSD Generator and the Resident Application (Figure 3, page 4), to tailor the OSD and programming information and deliver it to the Compositor/Format Conversion.
- The claimed step of providing the tailored program association information to the remote device is met by the link between the A/V Source and the DTV through 1394 bus.

Regarding claim 28, the claimed remote device being a digital television is met by the DTV Receiver (Digital Television Receiver) of Figure 3, on page 4.

Regarding claim 30, the claimed single program transport stream being a high definition video stream is met by the discussion of DV Streams in section 8.3, page 33. The High Definition DV coded video can be utilized in the system.

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Regarding claim 31, the claimed single program transport stream being provided to the remote device as an isochronous stream is met by the Digital TV Video Processing section 3.1, on page 13. This section discloses that the link between the A/V Source and the DTV is accomplished using an isochronous channel on the IEEE 1394 bus.

Regarding claim 32, the claimed isochronous stream being copy-protected is met by the discussion of the future of the standard in the Foreword on page 1. The foreword teaches that copy protection can be utilized in the system.

Regarding claim 33, the claimed single program transport stream being provided only to authenticated remote devices on the Institute of Electrical and Electronics Engineers 1394 serial communication bus is met by the Foreword's discussion of the DTV 1394 interface that is required to comply with the standard and in some way be authenticated in order to operate on the network.

Regarding claim 34, the claimed authentication being implemented using an authentication protocol is met by the Foreword's discussion of the DTV 1394 interface that is required to comply with the standard and in some way be authenticated in order to operate on the network.

Regarding claim 35, the claimed machine-readable medium that provides executable instructions, which when executed by a processor, cause said processor to perform a method is met as follows:

 The claimed step of receiving user interface information related to a remote device is met by the bi-directional Control & Status connection between the A/V Source and the DTV Receiver (Figure 3, page 4). This Status line serves to receiver information regarding the user interface from the DTV.

• The claimed step of formatting the information for transmission over an Institute of Electrical and Electronics Engineers 1394 serial communication bus in accordance with Electronics Industries Associations standard 775A and 799 is met by the OSD Generator and the Compositor/Format Conversion of Figure 3, page 4. These parts work together to format the OSD and generate it at the DTV.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Mitsubishi News Release, "Mitsubishi Digital Electronics Adopts DTCP (5C) Copy Protection System for IEEE 1394-Equipped Devices".

HAVi: Home Audio Video Interoperability, by Jussi Teirikangas. Date not known, but provides a good reference combining HAVi and 775A.

Stahl et al, US Pub. No. 2003/0227568, discloses the system for interoperability by Thompson Multimedia Licensing, Inc.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael R Shannon whose telephone number is 703-

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305-6955. The examiner can normally be reached on M-F 7:30-5:00, alternate Friday's

off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on 703-305-4795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael R Shannon Examiner Art Unit 2614 Page 13

Michael R Shannon November 23, 2004

JOHN MILLER

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